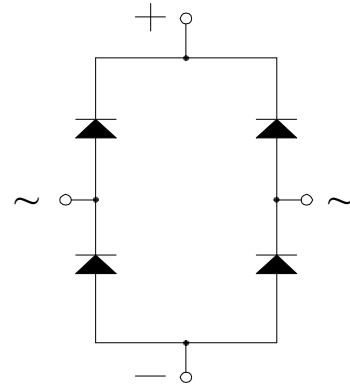


## MMF100.04

### POWER RECTIFIER BRIDGE

Output Current **100 A**



$V_{RRM}$	$V_{RSM}$	P/N
400	500	MMF100.04

#### Features

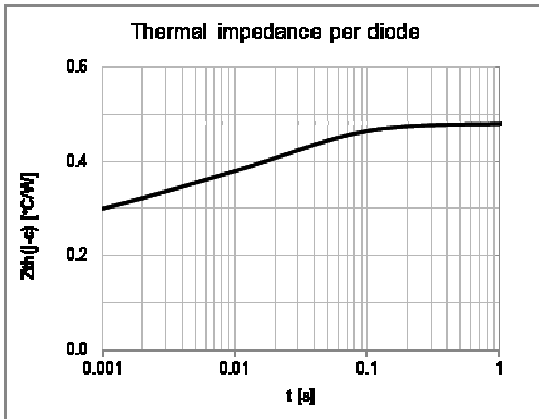
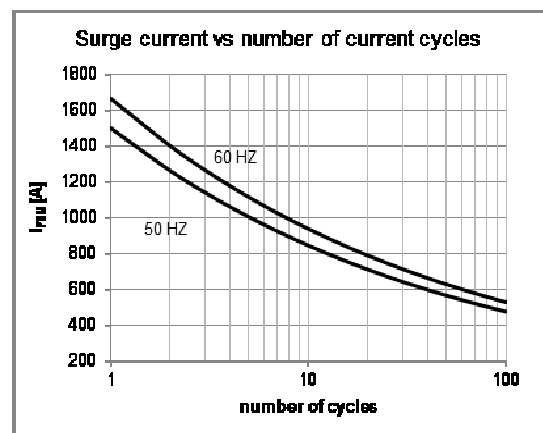
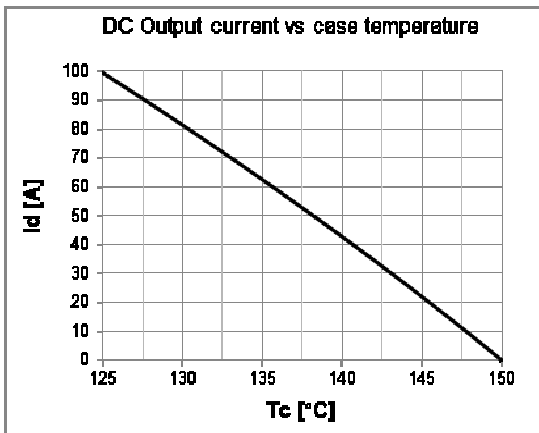
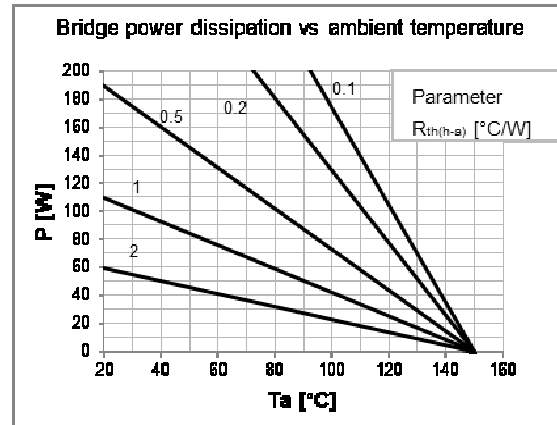
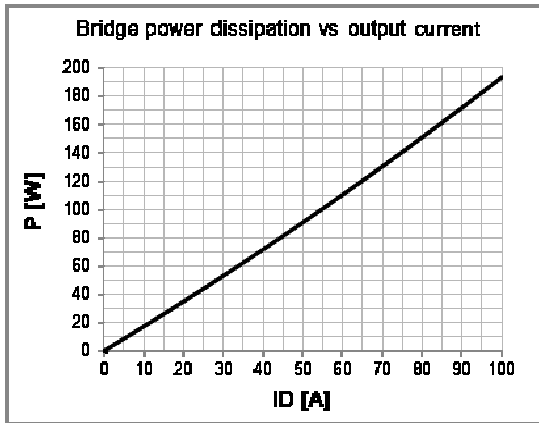
- Low forward voltage diodes for high surge capability
- Low thermal impedance packaging
- Electrically insulated case

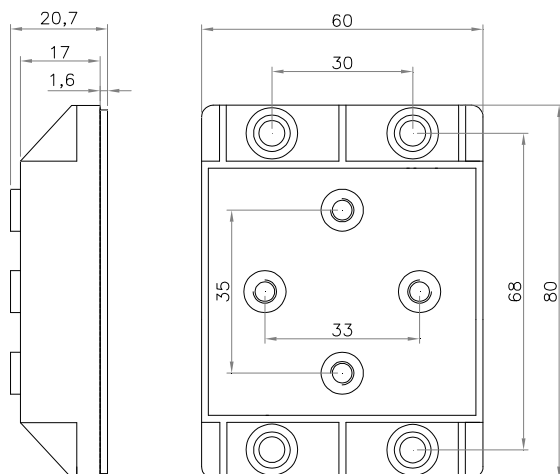
#### Applications

- High frequency applicatin
- Battery charger rectifiers
- Single phase rectifier for power supplies
- Rectifiers for DC motor fields supplies

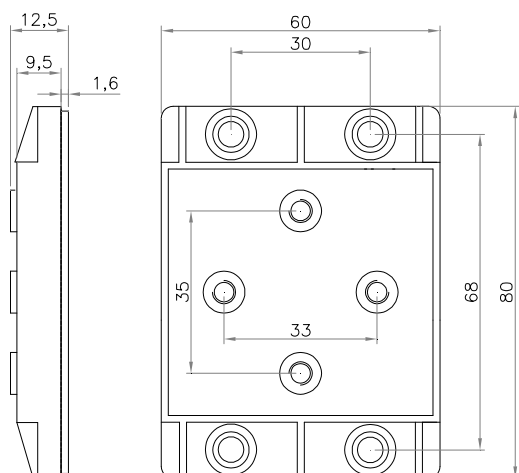
Diodes characteristics		Conditions	$T_j$ [°C]	Value
$I_{RRM}$	Max repetitive peak reverse current	$V = V_{RRM}$	150	4 mA
$V_{F(TO)}$	Threshold voltage		150	0,85 V
$r_F$	Forward slope resistance		150	1,0 mΩ
$V_{FM}$	Peak forward voltage, max	$I_F = 150A$	150	1,1 V
$I_{FSM}$	Surge forward current	Half sine wave, 10 ms	150	1500 A
$I^2t$	Max $I^2t$ for fusing		150	11250 A <sup>2</sup> s
$T_{jmax}$	Operating junction temperature			-40 / 150 °C
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation		0,48 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rectangular wave 180° conduction		0,89 °C/W

Module characteristics		Conditions	Value
$I_D$	DC output current	$T_c = 125\text{ °C}$	100 A
$I_D$	DC output current	$T_a = 40\text{ °C}$ ; freely suspended	8 A
$V_{INS}$	RMS Insulating voltage	50 / 60 Hz $t = 1\text{ s}$ ( $i < 1\text{ mA}$ )	3600 V
$V_{INS}$	RMS Insulating voltage	50 / 60 Hz $t = 60\text{ s}$ ( $i < 1\text{ mA}$ )	3000 V
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation	0,120 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rect. wave 180° conduction	0,130 °C/W
$R_{th(c-h)}$	Thermal resistance (case to heatsink)	Mounting surface flat, smooth and greased	0,058 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Freely suspended or mounted on an insulator	8,5 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Mounted on a painted metal sheet 250x250x1 mm	3,5 °C/W
$T_{stg}$	Max storage temperature		150 °C
$M_1$	Mounting torque, ± 15 %		4,5 N·m
			40 lb·inch
$M_2$	Terminal connection torque, ± 15 %		3,0 N·m
			26 lb·inch




**Fig.1**

MMF100.04-SS5-FIX5-HP-P68-TA  
Code:980001000000


**Fig.2**

MMF100.04-SS5-FIX5-LP-P68-TA  
Code:980001000001

**Power fix:**

SS=Screw (M5)

**Mounting fix:**

FIX= Ø5,5